

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

## PCT

To:

TBK-Patent  
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### NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing  
(day/month/year)

05-04-2004

Applicant's or agent's file reference

WO 33715

### IMPORTANT NOTIFICATION

International application No.

PCT/IB2002/002423

International filing date (day/month/year)

26-06-2002

Priority date (day/month/year)

Applicant

Nokia Corporation  
et al

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

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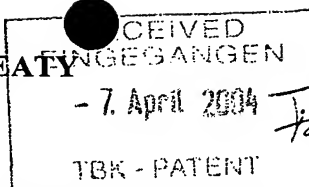
Inger Willén

## PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)



Applicant's or agent's file reference WO 33715		FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/IB 2002/002423	International filing date (day/month/year) 26/06/2002	Priority date (day/month/year)	
International Patent Classification (IPC) or national classification and IPC H04L 29/06, H04L 12/14, H04M 15/00, H04Q 7/38			
Applicant Nokia Corporation et al			

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.	
2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.	
3. This report is also accompanied by ANNEXES, comprising:	
a. <input checked="" type="checkbox"/> (sent to the applicant and to the International Bureau) a total of <u>3</u> sheets, as follows:	
<input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).	
<input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.	
b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))	
_____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).	
4. This report contains indications relating to the following items:	
<input checked="" type="checkbox"/> Box No. I	Basis of the report
<input type="checkbox"/> Box No. II	Priority
<input type="checkbox"/> Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/> Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/> Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/> Box No. VI	Certain documents cited
<input type="checkbox"/> Box No. VII	Certain defects in the international application
<input type="checkbox"/> Box No. VIII	Certain observations on the international application

Date of submission of the demand 23-01-2004	Date of completion of this report 31-03-2004
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Authorized officer Nabil Sebaa /LR Telephone No. +46 8 782 25 00

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/IB 2002/002423

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
  - ☐ publication of the international application (under Rule 12.4)
  - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1 - 8 \_\_\_\_\_ as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the claims:
- pages \_\_\_\_\_ as originally filed/furnished
- pages\* \_\_\_\_\_ as amended (together with any statement) under Article 19
- pages\* 1 - 3 \_\_\_\_\_ received by this Authority on 25/03/2004
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the drawings:
- pages 1 - 2 \_\_\_\_\_ as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to the sequence listing (*specify*): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to the sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/IB 2002/002423

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	<u>1-13</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-13</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-13</u>	YES
	Claims		NO

## 2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: US 2002/065785 A

D2: WO 01 67706 A

D3: WO 02 11468 A

The claimed invention relates to a method of providing an accounting service in a mobile communication system by utilizing a separated accounting server.

The aim of using a separated accounting server is to reduce problems with security threads in a AAA infrastructure where several AAA-C located in various places can be connected to the AAA infrastructure via some brokers, making the system vulnerable to malicious users trying to enter the system.

Document D1 describes a mobile communication system and a method for providing an accounting service in an AAA architecture, wherein the AAA at the home network carries out a processing for providing the desired accounting service according to the authentication and accounting request transmitted by a mobile node device (see abstract).

Document D2 relates to a method and system of negotiating reporting mechanisms for accounting records and reporting accounting records from a node to an accounting service (see abstract). The protocol used for carrying and reporting accounting records is the RADIUS protocol. This protocol transports records between network servers in serving networks where mobile nodes are currently operating and an AAA server which is normally located in the mobile node's home network.

.../...

## Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V

Document D3 describes also the use of accounting functions AAA in a mobile communication system where the RADIUS protocol with a dedicated server is used (see page 3, line 3-page 4, line 25 page 6, line 11-page 8, line 3; abstract)

The claimed invention according to new claims 1-13 filed with the letter of 25/03/2004 differ with original claims 1-13 in that new claim 1 is clarified by the feature that a specific accounting server out of several accounting servers is selected and indicated, dependent on the user. The new claim 3 is also clarified by indicating that the chargeable functionality is a service provided in a visited network of the mobile communication system. In addition, new claim 5 specifies that the indication is not transmitted to the user but to the accounting server. New dependent claim 6 was also amended to be in line with the new independent claim 1. The remaining claims were left un-amended.

In accordance with the newly filed claims 1-13, the user as such is never informed of an accounting server used, instead, dependent on the user, a different accounting server is selected. This feature clearly differentiates the claimed invention according to new independent claim 1 from D1, wherein the accounting server AAAy, corresponding to the ACC-1 or ACC-2 of claim 1, is fixed for all users using the service. Thus, according to D1, the AAAy is always used for the accounting irrespectively of the user accessing the service. This is not the case in the claimed invention according to claims 1-13.

Therefore, the claimed invention according to claims 1-13 amended and filed with the letter of 25/03/2004 is considered new and to involve an inventive step. The claimed invention is also industrially applicable.

Additional documents cited in the international report:

D4: WO 99 66400 A

D5: WO 01 76297 A

Documents D4-D5 are considered to represent the general state of the art, and the claimed invention according to claims 1-13 is not disclosed by these documents.